

SAFETY DATA SHEET

Product: E Vipafix Cement

Revision: 01

Date: 08/22/2024

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1 - IDENTIFICATION

GHS Product identifier: E Vipafix Cement

Other means of identification: 472005

Recommended use of the chemical: Adhesive for splicing conveyor belts and adhering materials such as rubber, wood and fabrics using the cold method. **Restrictions on use:** This product should not be used for applications other than those recommended in this section.
For more information, consult the product's technical data sheet.

Manufacturer's name: Vipal Rubber Corporation

Address: 2601 NW 89, FL 33172 - Miami - FL - United States.

Telephone number: +1 305 640 0330

Emergency telephone number: +1 305 640 0330

2 - HAZARD IDENTIFICATION

Classification of the chemical: Flammable Liquids - Category 2;
Skin Corrosion/Irritation - Category 2;
Serious eye damage/eye irritation - Category 2A;
Specific Target Organ Toxicity – Single Exposure - Category 3 - Narcotic and Category 3 - Respiratory.

Classification system adopted: OSHA HCS 29 CFR 1910.1200
Globally Harmonized System of Classification and Labeling of Chemicals (GHS), United Nations.

Pictograms:



Signal word: DANGER

Hazard statement(s): Highly flammable liquid and vapour.
Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.
May cause drowsiness or dizziness.

Precautionary statement(s): **PREVENTION:**
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed.
Ground and bond container and receiving equipment.
Use explosion-proof electrical, ventilating and lighting equipment.
Use non-sparking tools.
Take action to prevent static discharges.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash hands thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves, protective clothing, eye protection, face protection and hearing protection.

RESPONSE TO EMERGENCY:

IF ON SKIN: Wash with plenty of water.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water.

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IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a POISON CENTER or a doctor, if you feel unwell.
Specific treatment.
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing. And wash it before reuse.

STORAGE:

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

DISPOSITION:

Dispose of contents and container in accordance with local regulations.

Other hazards which do not result in classification: The product has no other hazards.

3 - COMPOSITION/INFORMATION ON INGREDIENTS**MIXTURE**

Components contributing to the hazard:	Methyl ethyl ketone (CAS 78-93-3): 37.62 - 56.42%; Naphtha (petroleum), full-range straight-run (CAS 64741-42-0): 22.82 - 34.24%.
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4 - FIRST-AID MEASURES**Exposure routes**

Inhalation:	Remove victim to fresh air and keep in a position that does not obstruct breathing. If you feel unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this document.
Skin contact:	Wash exposed skin with sufficient amount of water to remove the product. Remove and isolate contaminated clothing and shoes. In case of skin irritation: Consult a doctor. Bring this document.
Eye contact:	Rinse carefully with water for several minutes. If wearing contact lenses, remove them if it is easy and keep rinsing. If eye irritation persists: consult a doctor. Bring this document.
Ingestion:	Wash the victim's mouth with plenty of water. Never give anything by mouth to an unconscious person. If you feel unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this document.
Most important symptoms and effects, acute and delayed:	Causes skin irritation with redness, pain and dryness. Causes serious eye irritation with redness and pain. May cause drowsiness or dizziness, may cause dizziness and nausea. May cause respiratory irritation, may cause cough and sneezing.
Indication of immediate medical attention and special treatment needed, if necessary:	Avoid contact with the product when helping the victim. If necessary, symptomatic treatment should include, above all, supportive measures such as correction of hydro electrolytic and metabolic disorders and respiratory assistance. In case of skin contact, do not rub the affected area.

5 - FIRE-FIGHTING MEASURES

Extinguishing media: Appropriate: Compatible with all means of extinguishing.

Specific hazards arising from the chemical: Combustion of the material or its packaging can form irritating and toxic gases such as carbon monoxide and dioxide.
Very dangerous when exposed to excessive heat or other sources of ignition such as: sparks, open flames or flames from matches and cigarettes, welding operations, pilot lights and electric motors.

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May build up static charge by flow or agitation. Vapors from heated product can ignite by static discharge. Vapors are denser than air and tend to accumulate in low-lying or confined areas such as storm drains and basements. It can travel great distances causing the flame to retreat or new fires in both open and confined environments. Containers may explode if heated.

Special protective actions for fire-fighters: If the load is involved in fire, isolate and evacuate the area to a minimum radius of 800 meters. Wear positive pressure self-contained breathing apparatus (SCBA) and full protective clothing. Containers and tanks involved in the fire must be cooled with water mist.

6 - ACCIDENTAL RELEASE MEASURES

Personal precautions: Isolate leak from ignition sources. Keep unauthorized people away from the area. Stop the leak if it can be done without risk. Prevent sparks or flames. Do not smoke. Do not touch damaged containers or spilled product without wearing appropriate clothing. Avoid exposure to the product. Stay in a safe place, with the wind at your back. Use personal protective equipment as described in section 8.

Protective equipment: Wear full PPE with safety glasses, safety gloves, suitable protective clothing and closed-toe shoes. In the event of a leak, where exposure is high, it is recommended to use an appropriate respiratory protection mask.

Emergency procedures: Prevent spilled product from reaching waterways and sewage systems.

Methods and materials for containment and cleaning up: Use water mist to reduce vapor dispersion. Use natural or spill containment barriers. Collect spilled product and place in appropriate containers. Adsorb the remaining product with dry sand, earth, vermiculite, or any other inert material. Place the adsorbed product in appropriate containers and remove them to a safe place. Use non-sparking tools to collect the absorbed product. All equipment used in handling must be electrically grounded. For final disposal, proceed as per Section 13 of this document.

7 - HANDLING AND STORAGE

Precautions for safe handling: Handle in a well ventilated area or with general system of ventilation/local exhaust. Avoid vapors and mists formation. Handling the product can result in electrostatic charge buildup. All ignition sources must be extinguished from areas during use. Use proper grounding procedures. Use personal protective equipment as described in section 8. Avoid contact with incompatible materials. Wash hands and face thoroughly after handling and before eating, drinking, smoking, or using the toilet. Contaminated clothing should be changed and washed before reuse. Remove contaminated clothing and protective equipment before entering eating areas. Keep away from heat, sparks, open flame, and hot surfaces. Do not smoke. Keep the container tightly closed. Ground the container vessel and product receiver during transfers. Only use non-sparking tools. Avoid the accumulation of electrostatic charges. Use explosion-proof electrical, ventilation, and lighting equipment.

Conditions for safe storage, including any incompatibilities: Store in a dry, well-ventilated place away from sunlight. Keep the container closed. It is not necessary addition of stabilizers and antioxidants to ensure the durability.
Packaging compatibilities: Similar to the original packaging.
Keep away from incompatible materials.

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters**

Occupational exposure limit: The values below apply to workplaces.

- Methyl ethyl ketone:
Cal/OSHA - PEL - TWA: 200 ppm (590 mg/m³);
Cal/OSHA - PEL - STEL: 300 ppm (885 mg/m³);
OSHA - PEL - TWA: 200 ppm (590 mg/m³) (29 CFR 1910.1000 Table Z-1) (CFR);
NIOSH - REL - TWA: 200 ppm (590 mg/m³);
NIOSH - REL - STEL: 300 ppm (885 mg/m³);
ACGIH - TLV - TWA: 200 ppm;
ACGIH - TLV - STEL: 300 ppm;

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- Zinc oxide:
 Cal/OSHA - PEL - TWA: 5 mg/m³;
 Cal/OSHA - PEL - STEL: 10 mg/m³;
 OSHA - PEL - TWA: 5 mg/m³ (29 CFR 1910.1000 Table Z-1) (CFR);
 NIOSH - REL - TWA: 5 mg/m³ (TD) (FM);
 NIOSH - REL - STEL: 10 mg/m³ (FM);
 NIOSH - REL - Ceiling: 15 mg/m³ (TD);
 ACGIH - TLV - TWA: 2 mg/m³ (R);
 ACGIH - TLV - STEL: 10 mg/m³ (R).

CFR: See mentioned item in OSHA CFR;
 TD: Total dust;
 R: Respirable particulate matter;
 FM: Fumes.

Biological limit: - Methyl ethyl ketone:
 ACGIH - BEI: Determinant: Methyl Ethyl Ketone in Urine. Sampling Time: End of shift. Index: 2 mg/L.
 Notation: Ns.

Ns: The determinant is nonspecific, since it is also observed after exposure to other chemicals.

Other limits and values: - Methyl ethyl ketone:
 IDLH (NIOSH, 2010): 3000 ppm.

Appropriate engineering controls: A risk assessment is recommended to define the engineering control measures necessary to eliminate or minimize the risk. These measures help to reduce exposure to the product. Maintain atmospheric concentrations of the constituents of the material below occupational exposure limits indicated.

Individual protection measures, such as personal protective equipment (PPE)

Hand protection: Nitrile gloves.

Eye protection: Fully enclosed protective goggles.

Skin protection: Impervious clothing or protective clothing chemically resistant to the product.

Respiratory protection: Semifacial mask with filter for organic vapors.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.): Beige liquid, viscous.

Odor: Characteristic.

Odor threshold: Not available.

Melting point/freezing point: -86 °C (-122.8 °F).

Initial boiling point and boiling range: 65 to 125 °C (149 to 257 °F).

Flammability (solid, gas): Flammable.

Upper/ lower flammability or explosive limits: Upper: 12.6 %
and Lower: 1.5 %.

Flash point: -35 °C (-31 °F) - Closed cup.

Evaporation rate: Not available.

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Auto-ignition temperature:	- <u>Methyl ethyl ketone:</u> 475 °C (887 °F).	
Decomposition temperature:	Not available.	
pH:	Not available.	
Viscosity:	Not available.	
Solubility(ies):	Immiscible in water.	
Partition coefficient n-octanol/water (log value):	- <u>Methyl ethyl ketone:</u> log K_{ow} : 0.29.	
Vapor pressure:	- <u>Methyl ethyl ketone:</u> 105 hPa at 20 °C (68 °F).	
Vapor density:	Not available.	
Relative density:	Not available.	
Other information:	Absolute density: 0.83 to 0.85 g/cm ³ . Dynamic viscosity: 2610 to 3110 cP (2.61 to 3.11 Pa.s).	

10 - STABILITY AND REACTIVITY

Reactivity:	Reactivity is not to be expected under normal conditions of temperature and pressure.
Chemical stability:	Stable under normal temperature and pressure conditions.
Possibility of hazardous reactions:	- <u>Methyl ethyl ketone:</u> Risk of explosion on contact with hydrogen peroxide / nitric acid and hydrogen peroxide / sulfuric acid. The substance may react dangerously with oxidizing agents, trichloromethane / alkali and chromium trioxide.
Conditions to avoid:	High temperatures. Ignition sources. Contact with incompatible materials.
Incompatible material:	Alkali, aluminum, carbon monoxide, chlorinated rubber, chromium trioxide, hydrogen, hydrogen peroxide, inorganic acids, magnesium, oils, oxidizing agents and trichloromethane.
Hazardous decomposition products:	No dangerous decomposition products are known.

11 - TOXICOLOGICAL INFORMATION

Symptoms related to the physical, chemical and toxicological characteristics:	Causes skin irritation with redness, pain and dryness. Causes serious eye irritation with redness and pain. May cause drowsiness or dizziness, may cause dizziness and nausea. May cause respiratory irritation, may cause cough and sneezing.
Delayed and immediate effects and also chronic effects from short and long-term exposure	
Acute toxicity:	Product not classified as acute toxic. ATEmix Dermal: > 5000 mg/kg. ATEmix Vapours (4h): > 20 mg/L. ATEmix Oral: > 5000 mg/kg. ATEmix Dusts and mists (4h): > 5 mg/L.
Skin corrosion/irritation:	Causes skin irritation with redness, pain and dryness.
Eye damage/irritation:	Causes serious eye irritation with redness and pain.
Sensitization - respiratory or skin:	It is not expected to present respiratory or skin sensitization.

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Germ cell mutagenicity:	Not classified for germ cell mutagenicity.
Carcinogenicity:	Not classified for carcinogenicity.
Toxic to reproduction:	Not classified for reproductive toxicity.
Specific target organ toxicity (single exposure):	May cause drowsiness or dizziness, may cause dizziness and nausea. May cause respiratory irritation, may cause cough and sneezing.
Specific target organ toxicity (repeated exposure):	It is not expected to exhibit specific target organ toxicity on repeated exposure.
Aspiration hazard:	It is not expected to present an aspiration hazard.

12 - ECOLOGICAL INFORMATION

Ecotoxicity:	Not classified according to the used criteria, however, it presents relevant data, as described below.
Persistence and degradability:	It is not expected to present persistence and degradability.
Bioaccumulative potential:	Presents high bioaccumulative potential in aquatic organisms. Information regarding to: - <u>Naphtha (petroleum), full-range straight-run:</u> BCF: 0.4 to 6280 log K_{ow} : 1.99 to 18.02 (calculated).
Mobility in soil:	Not determined.
Other adverse effects:	No other environmental effects known.

13 - DISPOSAL CONSIDERATIONS

Disposal methods:	Must be disposed of as waste in compliance with local regulations. The treatment and disposal should be evaluated for each specific product. Keep the product remains in its original and properly closed containers. Disposal should be performed as established for the product.
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14 - TRANSPORT INFORMATION**International regulations**

Road:	DOT - U.S. Department of Transportation.- Code of Federal Regulations.
UN number:	1133
Proper shipping name:	ADHESIVES
Primary risk class or division:	3
Subsidiary risk class or division:	NA
Packing group:	II
Environmental hazards:	The product is considered dangerous for the environment for land transport.
Sea:	IMO - International Maritime Organization: • IMDG Code - International Maritime Dangerous Goods Code.
UN number:	1133
Proper shipping name:	ADHESIVES

In compliance with OSHA HCS 29 CFR 1910.1200

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Primary risk class or division:	3	
Subsidiary risk class or division:	NA	
Packing group:	II	
Environmental hazards:	The product is considered a marine pollutant.	
EmS:	F-E,S-D	
Air:	IATA - International Air Transport Association: • DGR - Dangerous Goods Regulation.	
UN number:	1133	
Proper shipping name:	ADHESIVES	
Primary risk class or division:	3	
Subsidiary risk class or division:	NA	
Packing group:	II	
Environmental hazards:	The product is considered dangerous for the environment for air transport.	
Transport in bulk according to MARPOL 73/78, Annex II, and the IBC Code:	Consult regulations: • International Maritime Organization: MARPOL: Articles, protocols, annexes, unified interpretations of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto, consolidated edition. IMO, London, 2006; • International Maritime Organization: IBC code: International code for the construction and equipment of shipping carrying dangerous chemicals in bulk: With Standards and guidelines relevant to the code. IMO, London, 2007.	
Special precautions for user:	Not applicable.	

15 - REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product in question:	Convention concerning Safety in the use of Chemicals at Work (Convention 170) - International Labour Organization, 1990. TSCA: We certify that all the components of this product are listed on the TSCA Inventory Active.
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16 - Other information, including date of preparation or last revision

This document was prepared based on current knowledge about the proper product handling and under normal conditions of use, in accordance with the application specified on the packaging. Any other use of the product involving their combination with other products, and use various forms of those indicated, are the responsibility of the user. Warns that the handling of any chemical substance requires the prior knowledge of its hazards for the user. In the workplace it is for the user company's product promotes training of its collaborators about the possible risks arising from exposure to the chemical.

Change control:

Version	Manufacture date	Changes
01	08/22/2024	Viscosity

Abbreviations:

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ACGIH - American Conference of Governmental Industrial Hygienists;
ATEmix - Acute Toxicity Estimate of the mixture;
BCF - Bioconcentration factor;
BEI - Biological Exposure Index;
CAS - Chemical Abstracts Service;
Ceiling - The concentration that should not be exceeded during any part of the working exposure;
IDLH - Immediately Dangerous to Life or Health;
 K_{ow} - Octanol-water partition coefficient;
NIOSH - National Institute for Occupational Safety and Health;
OSHA - Occupational Safety & Health Administration;
PEL - Permissible Exposure Limit;
REL - Recommended Exposure Limit;
STEL - Short Term Exposure Limit;
TLV - Threshold Limit Value;
TWA - Time Weighted Average;
UN - United Nations.

Bibliographic references:

ACGIH - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIALS HYGIENISTS. TLVs® and BEIs®: Based on the Documentation of the Threshold Limit Values (TLVs®) for Chemical Substances and Physical Agents & Biological Exposure Indices (BEIs®). Cincinnati-USA, 2024.

GHS - GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS. 10th rev. ed. New York and Geneva: United Nations, 2023.